



# RF



## ORANGE COUNTY AMATEUR RADIO CLUB

VOL. XXXIII NO. 7

P.O. BOX 3454, TUSTIN, CA 92681

JULY, 1992

### JULIAN MACASSEY, N6ARE TO SPEAK AT JULY MEETING

Earthquakes, earthquakes, earthquakes are on every Southern Californian's mind lately - Well, this talk is not going to be on earthquakes! Instead, Julian Macassey, N6ARE will be talking on the workings of the telephone system, or perhaps on a subject he's wanted to talk on for a long time - how to make a really good cup of tea! (Julian also holds a "G" call) Whatever Julian selects for his topic you can be sure it is going to be entertaining and educational. Don't miss it.

Members who were in the club a few years back will remember Julian's last visit when he presented a talk on nicad batteries. Many of

you have requested we invite him back again. I followed his advice on caring for nicads and am still using the original battery pack that came with my IC2-AT over ten years ago.

Julian is quite a dynamic speaker

## July 17th Program: JULIAN MACASSEY N6ARE

with a lively sense of humor. He has given presentations at many of the radio clubs throughout LA and Orange County and also at ARRL conventions. He can also be found on packet radio in the LA area.

1992 OCARC FIELD DAY  
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THURSDAY, JULY 16TH

### In This Issue ..... Page

July Board Minutes .....	1/5
"Crystal" .....	2
Net Notes .....	3/4/5
June Meeting Minutes .....	5
Club FD Results .....	6
ARRL Hamfest .....	7

Prez Sez will return next  
month along with the Prez!

### Minutes Board Meeting July 4, 1992

The July Board Meeting was called to order at 9:35 am by Bob, AF6C, Vice President. The following board members were absent: WA6VKZ, WA3JPG, and K6KAA.

The Treasurer reported \$691.32 in checking and \$1,068.52 in savings. All debts related to Field Day have been paid.

The Membership Chairman reported that the club now has 120 paid members. Bob, AF6C, commented that this is the largest the club has been since the early 1980's.

The Activities Chairman announced that he is in possession of a new AEA PK-232 which is being offered for a club raffle. After at least 400 tickets are sold, the winning ticket will be drawn.

### Old Business

Member at Large Ken, W6HHC, announced the preliminary number of contacts that the club made at Field Day: 75 Phone - 294, 40 CW - 200, 40 Phone - 110, 20 CW - 541, 20 Phone - 555, 15 Phone - 840, 10 Novice - 232, OSCAR - 80, 2 Phone - 74, 6 Phone - 13, Packet - 41, 220 - 0, 440 - 1. A total of 2950 contacts were made and with bonus points Ken estimated our score at 7,460 points.

Bob, AF6C, directed the Secretary to write thank you letters to the Red Cross for the use of their lighting trailer

*Continued on Page 6*

## CRYSTAL CONTROLLED

by Bob Eckweiler, AF6C

Over the past week I've had a chance to monitor the VHF "Crystal" seismic monitor using my PRO-2023 Radio Shack scanner. Let me share with you some of the observations I've noticed while listening to the aftershocks of the recent Landers and Big Bear earthquakes. Since I have no technical data on the "Crystal" system, the comments I'm presenting are to excite others into a new SWL hobby (Seismic Wave Listening)! When and if more data is available on "Crystal" and other seismic radio monitors we will keep you abreast of it in RF.

For those of you who have not monitored "Crystal" it normally transmits a steady audio tone somewhere near 1 KHz. When seismic activity occurs the tone wavers around the center frequency. The shift of frequency appears to relate to the amplitude of the activity. The monitor seems very sensitive and responds to very

small events. The audio tones seem to have an upper and lower tone limit where the system saturates. During events near magnitude 4 the tone saturates fairly rapidly between the two tone limits sounding almost similar to an HF RTTY transmission.

Twice I've been monitoring when the tone appeared to saturate for a period of a second or two at one limit then rapidly switch to the other limit. Both times ground movement was felt in the shack a few seconds after the slow limiting tones started. These shocks were reported at magnitudes 5.2 and 5.5.

While "Crystal" can't predict earthquakes or really give you any substantial warning of a quake coming (no warning if the epicenter is closer to you than the monitor) it does offer a chance to learn more about our unsteady ground.

I'm interested in any one else who has observations on "Crystal", or was monitoring when the magnitude 7.4 struck during Field Day. I've been thinking of attaching a phase-lock-loop circuit to the output and monitor it on a com-

puter. Until Field Day Sunday monitoring "Crystal" was not very exciting - just a steady tone with an occasional small warble. Let's hope it returns to that mode soon!

By the way, these monitors are very low power and a good antenna is needed. The signal is horizontally polarized so a similarly polarized receiving antenna will help by 3 db.

For the frequency of "Crystal" and some of the other seismic monitor transmitters in the Southern California please ask Bob, WB6IXN or me at the next meeting.

### 1992 CLUB BOARD of DIRECTORS

President.....	Frank Smith.....	WA6VKZ.....	838-3180
Vice President .....	Bob Eckweiler.....	AF6C.....	639-5074
Secretary .....	Jane Breller.....	KC6TAM.....	310/866-2077
Treasurer .....	Carmine Fiorello...	AB6KE.....	837-5133
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Membership .....	Bob Buss.....	KD6BWH.....	534-2995
Public Relations ...	Cindy Hughes.....	KC6OPI.....	971-3448
T.V.I. Chairman ...	Clark Turner.....	WA3JPG.....	856-2131
Member at Large ..	Ken Konechy.....	W6HHC.....	744-0217
Member at Large ..	Mike Abreu.....	K6KAA.....	832-8503

### CLUB APPOINTMENTS

Club Historian .....	Bob Evans.....	WB6IXN.....	543-9111
W6ZE Trustee .....	Bob Eckweiler.....	AF6C.....	639-5074
RF Editor .....	Nancy Bucher.....	N6XQR.....	537-8728
Refreshments.....	Cindy Hughes.....	KC6OPI.....	971-3448

### DUES

Regular Member.....	\$12.00	Additional Family Members ..	\$6.00 each
Teenage Members (under 20).....	\$6.00	Optional Club Badge .....	\$5.00

Dues for new members are prorated quarterly from January of each year. Family members must reside at the address of a Regular Member. One RF is sent per household.

Gordon West Radio School, Inc.  
presents

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Aug. 14, 15, 16 -- Irvine  
Sept. 25, 26, 27 -- Los Angeles  
Oct. 9, 10, 11 -- Irvine  
Nov. 13, 14, 15 -- Los Angeles  
Dec. 4, 5, 6 -- Irvine

**General Code Class**  
**Dan Fort, AA6LM, Instructor**  
Aug. 15, 16 -- Irvine  
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by Linda Davis, AB6KQ

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## On the Nets -- June, 1992

by Bob Evans, WB6IXN

5/28 40m CW net - W6ZE/RND checks in DXN, XQR, NT, NG7D, & UF. NG7D is off freq. & OPs move off freq. slightly to find him. XQR plays w/d the paddle & increases her speed! NG7D returns, & Nancy copies at breakneck speed! And NT talks to Larry abt FD tnx, Nancy! And UF taps the key lightly, hoping to avoid the 'Tennessee Valley Indians'!..Hi! NG7D still has a slight realignment problem w/d the 'Century', but it does a FB job w/d the sigs! John blames it on analog tuning! We all follow W6ZE up freq. slightly to avoid QRM! UF uses the 'hand pump', so setting key speed is no problem for Larry. Fear not, Ray! Ur speed was FB and so was the copy! RND won't be home nxt wk, so we'll all see John in 2 wks! DXN doesn't 'shake' OPs up w/d any sizeable 'events' this week!

6/3 15m phone net - W6ZE/AF6C checks in NGO, DXN, and XO. AF6C's sister returns home from her visit, & NGO helps California Orange Juice repair his twisted tower, & Kei gets sun tanned from the arc welder! And XO gets off 2m simplex near Lake Matthews in time to tell us abt the chase of his wayward dog! And AF6C asks Kei abt the 'owner shoots bandit' incident at a liquor store on Chapman Ave.! DXN catches up on NEIC data, & XO helps an OP line up help for an equestrian event in Hollister.

6/3 2m phone net - W6ZE/IXN checks in OPI, ZH & TAM, NG7D, RE, ONZ, YKH, RND, FZE, UF, BWH, VDP, XQR, & KE. OPI, ONZ, & FZE are all home at the same time for a change! Cindy persuades the errant feline that dinner is for the family & not it! Don busies himself w/d the 'ins & outs' of the new computer and the new rig, while keeping the hands busy assembling the new chest of drawers! FZE retires. School tomorrow! TAM, feet propped up in front of the 'boob' tube, leaves QSOs to ZH, who contacts a 3D2 in Fiji, an OH2 on Aland Is., etc. Chris tells OPs Post Office has new IRCs that go airmail..Chris says his QSLs come in faster now! Jane's brother is visiting & TAM starts job interviews..Gud luck, Jane! NG7D buys the Fonda/Hopper vintage motorcycle poster for a song! John sends two of them off in the mail! And John joins the go-around w/d XO & his Tracy contact on 15m CW QRP, while he contemplates adding an S-meter and a 3-band crystal calibrator to the Century 21! RE collects abt 3 yds of teletype paper copying ARRL bulletins. And, hve you ever worked DX in ur sleep? Alex has! RE got QSL cards from Japan, Bucharest, & Moscow, and he swears he didn't work the OPs!?. RE reads vy important ARRL bulletins to OPs and airs an interesting Newsline. YKH & DXN just love computer companies upgrading their hardware & software, & the hours OPs hve to spend to make the whole menagerie work!! RND, off to new adventures tomorrow, asks DXN to handle the CW net Thurs. eve. UF leaves the word processor long enuf for a check-in, & tell OPs that he still awaits a QSL from Aland Is., & conveys name of Dennis Hopper to NG7D concerning other person on motorcycle poster. BWH tells ZH & TAM abt auto problem at last

Club meeting, & Bob vanquishes the weeds from his upcoming corn crop! VDP hops on a couple of 6m openings, & now Larry only needs 4 more grid squares to complete the 100!..(all on 10W & a vertical). XQR hears from Blanche & Wyatt! They will be at the Club breakfast Sat. at Ricky's Restaurant. And XQR joins BWH in the garden dept., w/d tomato plants in bloom, & new roses in the future! And Nancy wrks the CW contest last weekend, w/d 5 contacts in the Extra freqs. on 20 & 40m.! KE, body outside w/d head in shack, tells OPs abt FD OSCAR yagis he's been working on. And Carmine fell bk on the Outbacker ant. earlier, to work an OP on Cabal San Lucas.

6/4 40m CW net - W6ZE/IXN checks in NT, XQR, ZH, UF, & VDP. RND asks IXN to act as NC. We meet on 7.140.6 + or - QRN & QRM! ZH's rig is off freq. abt 1 KHz & DXN tunes to accomodate the difference. NT hears all OPs 599. And Ray finds sum old pwr line (MARS stuff) if needed for FD! XQR asks ZH if he was notified of Club Bfast change to Ricky's Restaurant. ZH got the news from VKZ. XQR asks NT if he will be at nxt meeting. Ray will try to make it! ZH & TAM hve up to 165 DXCC countries confirmed, & Chris & Jane will attend the Sat. Bfast. UF wrks 4 JIFS yesterday SSB, w/d QRN. Larry wonders if the OP got his call OK! KE stops over at VDP's QTH & Larry & Carmine listen to the 6m FM net. And Larry comments on a variety of freqs. for this net tonite! And XQR's CW cat is all over her tonite!..Hey, Nancy! Change that cat's name to "CW"!..Hi!

6/10 15m phone net - W6ZE/AF6C checks in NGO, DXN, & XTJ. NGO & COJ complete the re-installation of COJ's tower, & Kei gets back to FD preparations, even running the Club generator for a short time today! DXN can't hear XTJ & vice versa! However, Jim busies himself w/d the bicycle races. AF6C meets Art Sheldon, WA6LHB/AD6B, past member & Pres. of OCARC! We will send Art a copy of June 'RF'! IXN reports on a 5 PM 4.3 aftershock of the previous Joshua Tree event.

6/10 2m phone net - W6ZE/IXN checks in XTJ, XQR, NG7D, RE, BWH, HHC, ZH & TAM, VDP, DBY, UF, ESD, (ONZ, OPI, & FZE), & TL. XTJ works the Bicycle Regional Championships, & Jim remarks abt QRN on the 15m net tonite. XQR tells OPs Ricky's Rest. has gud food, gud prices, but delayed Club use of a room for awhile. Nancy prepares for more VE testing this weekend at the EICOM Center. NG7D gets a 'thank you' landline from his friend in Richmond, B.C., Canada, for posters, etc., John sent to him. 430 anyone?..NG7D has one for sale, w/d visions of a new 850 & R7 vertical dancing in John's head! ARRL bulletins, sprinkler problems, non-repairable hard rubber sprinkler line, & decapitating trees occupies RE's time the past week. Alex says HR 73 & SB 1372 are doing well, but more letters to your Congressmen are needed to get them on board! And Alex tells OPs abt a new light bulb w/d an RF generator inside!..What next?! BWH joins IXN fighting the garden snails, & Bob is mobile tonite, w/d gud sigs, on his way home. HHC booms in at IXN's QTH after mounting the 2m ant. rooftop! ZH, TAM, XTJ, & ESD form a 'cold quarter'

*Continued on Page 4*



## Net Notes - Continued from Page 3

all sniffing & sneezing in perfect harmony! However, Chris continues to receive DX confirmations! And Jane prepares to make Brownies for the next Club meeting. VDP says 6m was open most of the day, & Larry picked up wide band QRN abt every 20 KHz! Larry plans to erect a 3 element beam tomorrow. Also, NT, Ray, will provide a horse trailer for the FD station, wid power cords, etc., from the defunct NARSmen available! Newsline was blacked out at DBY's for abt 15 secs. during Xmission! And ESD's cold doesn't keep him from all those ladies at the senior citizens dance classes! FZE tells OPs school is out next week, & OPI prepares for a school carnival Fri., while ONZ massages the family laundry! TL has the PK-232 ready for some lucky Club winner..also, Picket Gold software to go along wid it!

**6/11 40m CW net** - W6ZE/RND checks in IXN, XQR, NT, NG7D, & UF. RND tnx IXN for handling the net last week. IXN rpts. all quiet on the Seismic front, & XQR & BWH team up to get 'RF' out extra early! Last week, RND & XYL 'hopped, skipped & jumped' to Utah, Nev. & Ariz.! IXN tnx XQR & TWF for the fine QSOs wid the FCC in PA, & the Pentagon in Wash., D.C., from the Martin Elem. School in Santa Ana! Excellent PR, OPs! NG7D says XQR sigs remind him of the QRP rig he sold at last Club auction! And all OPs remark abt poorer band conditions tonite..even NT, who copies all OPs well despite the QRN & fading sigs.! UF misses RND as NC last week, & wonders if RND will be available for CW operation on FD. Net ends wid an outside OP tuning up on freq.!

**6/17 15m phone net** - W6ZE/AF6C checks in XO, XTJ, NGO, IXN, RND, XQR, COJ & WA5USU. California Orange Juice 'turns sour' after a jokingly false report that the FD site had been cancelled! Dave informs W6ZE that Dick, USU, in Carlsbad, NM, is calling us. XO, back to work last Mon., switches therapy times, gets up at 4:30 AM, buys a motorcycle tent to play wid, & gets ready for FD! XQR exclaims, "Who has my coax for FD!" And Nancy edits last year's 2 hr FD tape to 45 min. for Club meeting, & prepares log sheets. IXN tells Nancy that a copy of the paper has been sent to JBS. XTJ goes split shift at work & will be on the nets when possible! NGO, wid ants. & generator ready for FD, doesn't hear much of XQR's xmission. AF6C is getting new tail lights, replacing the ill fitting and cracked ones. Bob shud shine brightly when he puts the brakes on now!

**6/17 2m phone net** - W6ZE/IXN checks in OPI, KAA, ONZ, NG7D, RND, RE, XTJ, FZE, ZH, TAM, VDP, QW, DBY, XQR, JBS, UF, LRF, & OWD. "School's over..Hurray!", says Cindy, as she hopes the news media 'says it right' wid Club announcements for FD! KAA listens to the woes of the 'Frazier Peak' bunch as they are greeted wid winter conditions during the VHF Sweepstakes, and prepares to go to the Santa Maria Hamfest on Sun. ONZ needs 2, 2, 2, & 2 for FD!..(stoves, barbecues, tables & griddles, that is!) NG7D puts the 430 up

for sale on the Catalina Rptr, & is swamped wid abt 20 calls in 1 hr! And John receives a paper quarter from a Canadian ham..vintage: 1926-1929! AF6C breaks in to tell NG7D that ZLIBMK is on 21.375, but John just sold the HF rig! RND confirms USU's call from the 15m net for IXN, & John hopes to visit Tom, KA1ZRH, for an eyeball in Oct. JBS will attend Club meeting Fri. eve., & Gary's XYL is awaiting her new ticket...another OP for XQR's FD YL station! XQR will air a 45 min. version of last year's 2 hr FD tape at Fri. meeting. What! Oil under JBS' QTH! Icky gunk in the backyard prompts Gary to further research as visions of 'YL Tar pits' (Yorba Linda, that is), or visions of graceful oil rigs dotting the neighborhood, race thru Gary's head! Stay tuned for Chapt. 2 of 'Gary Toils for Oil'! UF operates from the auto in the parking lot of a pizza parlor, having just finished an eyeball wid John, LAB. LRF moves into a new apartment at Huntington Beach, & will soon pass the theory for the Extra ticket! OWD, Tim, was married to XYL, Elaine, 3 wks ago. Congrats, Tim! RE works a few of the VHF sweepstakes OPs but misses VDP & KAA. All OPs listen as Alex describes a new light bulb that operates on 13.56 MHz wid 25 Watts RF power (or shud we say RFI power!) RE also tells OPs that handicapped persons claiming exemptions must use the new FCC form 610 did 3/92, after Aug. 1! Newsline tells us that SAREX means 'Shuttle Amateur Radio EXperiment. XTJ tells IXN that we bombarded 2 OPs on freq. at net time! IXN only heard white noise on the freq. when net began. Jim also gives packet & slow scan TV uplinks & downlinks for STS-50, & tells OPs he has Coleman stove & a barbecue available for FD. TAM practices code wid ZH. Jane, has IBB heard your 'fist' yet?! Meanwhile, QSLs arrive from Indonesia, Panama, Kenya, etc. VDP goes on the warpath against the Tennessee Valley Indians!..Larry dismantles the G5RV ant. after coupling & feed impedance problems are discovered! Then QW takes the mike to tell us that the Commodore 64 is ready for FD, & that VDP will be preparing cables for the new digital audio filter. Code practice doesn't keep DBY from tiling the kitchen, dinette, etc.

**6/18 40m CW net** - W6ZE/RND checks in NG7D, UF, XQR, VDP, NT, & IXN. NG7D has a BD coming up! Next net he'll be a yr. older! And XQR does better on 'din-din' tonite than she did last nite wid the 2m net! And Nancy has the edited FD tape ready for 'Mtg. tmrow nite'! IXN arrives on the net late..an intestinal bug strikes him down temporarily! VDP returns!..He's using QW's TS-850, trying to get used to all the 'bells & whistles'! NG7D manages to stick 'The System' beam at 360 deg., so only hears ZLIBMK for abt 30 secs.! IXN has a heterodyne on UF, but manages to hear abt a QSL in from Croatia! And NT hears all OPs & plans to eyeball wid us at Meeting! Wid sum of us slightly off freq., RND does a super job at reading all OPs FB!

**6/24 15m phone net** - W6ZE/AF6C checks in NGO, IXN, & QE. AF6C arrives home just in time to start check-ins! NGO's dog, Rocky, has anemia, & IXN anticipates an EQ

Continued on Page 5

## Net Notes - Continued from Page 4

article from AF6C. QE checks his list of items for FD, and NGO has a dirt problem in the generator fuel lines. All OPs are ready to venture forth to the FD site Fri. afternoon!

**6/24 2m phone net** - W6ZE/IXN checks in OPI, ONZ, FZE, BPX, RE, VDP, KAA, XQR, ZH, TAM, ESD, XTJ, RND, & BWH. OPI acts as RC Coordinator for the recent Anaheim fire, wid ONZ 'playing radio' right beside Cindy! And FZE will 'summer school' wid General Science. And Don tells OPs additional chef needs for FD! All OPs welcome BPX bk to the rig & the Net!... Great to hear you in there agn, Wyatt! And Blanche & Wyatt were at last Club breakfast, too! RE updates OPs wid late DXCC countries news, airs Newline, & will help set up for FD on Fri. VDP has QW's 850, and the 40m inverted V ant. ready to go for FD. And Larry only needs 2 more grid squares for the VUCC Award! XQR participates on NOA's super 8D party last Mon. eve., & Nancy says JBS' XYL, Donna, is now KD6KSV. Congrats, Donna! 'Hve toy, will play' says ZH as he investigates new TNC from TAM for Father's Day! TAM still nurses her cough as Chris & Jane expect family from Indiana, and Chris collects a QSL from Christmas Is. KAA attends the Santa Maria hamfest. Gud food. Same junk! And Mike saw Fried & Sandy Heyn in attendance! ESD alerts OPs to a new Senior Center, at 19th & Pomona, in Costa Mesa, & Bob picks up an XU8 in Cambodia. XTJ will bring a Canadian OP wid him to FD, Doug, VE7SSB. And RND, over the flu, prepares to take off for the hills on Fri. for FD. BWH, his 1st FD coming up, tells OPs that they can hear the Shuttle mission on 448.500, the WA6VLD rpt.

**6/25 40m CW net** - W6ZE/RND checks in IXN, UF, & NT. 40m is wide open & John moves dwn a couple KHz to avoid QRM. IXN rpt's vy active USGS seismometers over past 2 days, & says he'll be at FD site Sat. eve. RND will 'head for the hills' tomorrow in the RV, where John will work FD mostly CW. UF works QRP to avoid TVI, & NT is 'better late than never'. Ray & Larry were comparing notes for FD! IXN will help out Sat. eve. if needed. NT was 'kinda overwhelmed' by all the strangers at last Club meeting. Ray only knew abt 2 OPs! (We are over 100 strong now, Ray!) //-.J.-.-.//-.J.-.-.//-.J.-.-.//-.J.-.-.//-.J.-.-.//-.J.-.-.//-.J.-.-.//-.J.-.-.//-.J.-.-.//-.J.-.-.//

## Minutes General Meeting June 19, 1992

The meeting was called to order at 7:30 pm by Frank, WA6VKZ. The following board members were absent: KM6TL, WA3JPG.

The program for this meeting was Past Field Days and was presented by Ken, W6HHC, who showed slides and Nancy, N6XQR, who played a videotape of the 1991 Field Day.

Following the presentation, the May minutes were approved as published in the June 1992 'RF'.

### Old Business

Field Day preparations were discussed. The club will operate 5A Orange Section from MCAS Tustin. Shelters were still needed for the packet station and the 20

meter CW station. Frank, WA6VKZ, stated he would arrange for the needed shelters. Frank, WA6VKZ, stated that the club should earn bonus points for emergency power (500), public relations (100), solar power (100), ARRL Message (100), and satellite station (100).

### New Business

The treasurer reported that the club had \$926.37 in checking, \$1164.08 in savings and \$0.00 cash on hand.

The Membership Chairman reported that the club now has 119 members.

The meeting adjourned at 9:45 pm.

Respectfully submitted,  
Jane Breller - KC6TAM  
Secretary

## Board Meeting Continued from page 1

and to the Base Commander for the use of the site.

A post Field Day critique ensued with suggestions for a Frequency Manager, better operating directions for new contesters, and shelter coordination. KJ6ZH volunteered to write an article on Field Day operating procedures for next May's 'RF'.

### New Business

Nancy, N6XQR, approached the Board with a suggestion that the club allow members to borrow the club's towers during the year with the provision that the member provide the tower for Field Day. The Board Members pointed out problems of liability, tower transportation, and tower deterioration if loaned out for member use. The discussion ended without a motion on this subject by a board member.

A cake was presented to Bob, AF6C, for the occasion of his birthday.

The Board Meeting adjourned at 10:05 am.

Respectfully submitted,  
Jane Breller - KC6TAM  
Secretary

**No-Code Technician  
Weekend Classes  
Fountain Valley**

**Bob Gregg, AB6CH  
Instructor**

**July 24, 25, 26  
August 28, 29, 30**

**CALL  
(714) 375-0387**

WJF

## ORANGE COUNTY AMATEUR RADIO CLUB

JULY 1992

FIELD DAY SUMMARY  
FOR  
THE ORANGE COUNTY AMATEUR RADIO CLUB - WJFZ

BY: Ken/W8HHC &amp; Bob/AF6C

YEAR	80M CW	70M SSB	40M CW	40M SSB	30M CW	20M SSB	17M SSB	15M CW	15M SSB	12M SSB	10M CW	10M SSB	6M PHN	2M CW	2M PHN	2M PKT	220 PHN	440 PHN	144/440 ATV	144/440 OSCAR	NOVICE (CW)				TOTAL	
																					80	40	18	10	OSCAR /	(POINTS)
1968	10	224	62	396	50	328	-	24	430	-	0	68	0	0	145	-	0	-	-	-	0	0	0	0	1,790 /	3,908
1969	0	96	0	50	0	375	-	0	301	-	0	0	0	0	180	-	0	-	-	-	0	0	0	0	993 /	1,968
1970	0	272	0	0	0	531	-	0	425	-	0	0	0	0	0	-	0	-	-	-	0	0	0	0	1,239 /	2,458
1971	0	274	0	106	0	530	-	0	136	-	0	0	0	0	0	-	0	-	-	-	0	0	0	0	1,046 /	2,022
1972	0	50	0	260	0	521	-	0	530	-	0	0	0	0	94	-	0	-	-	-	0	0	0	0	1,545 /	3,090
1973	80	226	0	452	0	932	-	0	273	-	0	0	0	0	46	-	0	-	-	-	0	0	0	0	2,019 /	4,219
1974	0	161	0	333	0	630	-	0	342	-	0	130	0	0	0	-	0	-	-	-	0	0	12	0	1,000 /	2,246
1975	80	120	154	274	40	863	-	140	259	-	0	123	0	0	0	-	0	-	-	-	0	0	0	0	2,053 /	4,514
1976	90	254	152	487	21	900	-	64	219	-	2	54	0	0	2	-	0	-	-	-	0	0	0	0	1,046 /	4,566
1977	28	243	163	190	0	843	-	47	408	-	0	309	0	4	234	-	0	-	-	-	0	19	34	4	2,810 /	5,812
1978	14	196	242	170	30	981	-	56	556	-	0	145	0	1	164	-	23	-	-	-	2	4	7	13	2,900 /	5,820
1979	0	190	198	92	42	773	-	0	737	-	0	98	0	2	124	-	8	-	-	-	0	0	0	0	2,364 /	5,016
1980	20	149	205	235	471	316	-	92	1,025	-	0	228	12	0	900	-	36	-	-	-	0	0	0	0	2,848 /	7,164
1981	0	167	200	265	60	899	-	77	717	-	0	103	0	0	197	-	0	-	-	-	0	0	0	0	2,487 /	5,646
1982	0	105	49	236	49	352	-	0	515	-	0	72	0	0	155	-	27	-	-	-	0	10	19	0	1,982 /	3,400
1983	0	93	200	0	0	778	-	0	965	-	0	43	18	0	16	-	1	-	-	-	0	0	0	0	2,145 /	4,905
1984	0	0	310	0	22	198	-	0	350	-	0	9	0	0	0	-	0	-	-	-	16	3	32	0	941 /	2,872
1985	81	0	311	91	35	662	-	75	0	-	0	0	0	0	22	-	0	-	-	-	4	4	2	0	1,288 /	3,602
1986	0	48	219	78	0	488	-	0	45	10	0	8	0	0	82	0	0	-	-	-	0	0	0	0	988 /	2,374
1987	22	0	0	39	0	709	-	0	18	1	0	0	1	0	51	5	0	-	-	-	0	0	0	0	982 /	2,202
1988	127	0	68	75	2	353	-	0	570	0	0	81	0	0	32	14	0	-	-	-	0	27	0	144	1,487 /	3,728
1989	30	0	98	5	0	906	-	21	172	0	0	238	3	0	181	16	24	9	1	-	0	0	0	0	1,846 /	3,590
1990	0	0	70	144	0	370	-	0	747	0	0	131	39	0	114	2	14	28	0	-	0	0	0	0	1,867 /	2,454
1991	105	308	182	182	400	623	23	9	483	0	0	194	4	0	141	48	23	11	0	0	0	0	0	0	2,626 /	8,740
1992	0	294	200	116	541	555	0	0	840	0	0	232	13	0	74	41	0	1	2	80	0	0	0	0	2,983 /	7,530

Note: These are raw contacts taken directly from the log sheets. Adjustments have not been made for duplicate contacts, and bonus points have not been added yet. Final scores appear in QST in the fall.



# ARRL NATIONAL CONVENTION

August 20 - 23, 1992

Los Angeles Airport Marriott Hotel

Sponsored by Los Angeles Area Council of Amateur Radio Clubs  
and Orange County Council of Amateur Radio Organizations



**EARLY BIRDS RECEIVE FREE LOGO PIN**

## EXHIBIT HOURS

Friday: 6PM to 9PM  
Saturday: 9AM to 5PM  
Sunday: 9AM to 1PM



## PRIZES

Early Bird Prize  
Advance Registration Prize  
Hourly Door Prizes  
Grand Door Prize

## SPECIAL EVENTS

Thursday: Industry Reception  
Friday: ARRL Educational Workshop,  
Hospitality Suites  
Saturday: Breakfast, Swap Tables,  
Alternative Programs,  
Volunteer Exams, Luncheon,  
Banquet, Wouff Hong  
Sunday: Breakfast, Auction, T-Hunt

## PROGRAM HIGHLIGHTS

ARRL & FCC Forums  
Antenna & RFI Seminars  
DX & Contest Forums  
Various Digital Forums  
ARES/RACES/NTS  
AMSAT/QCWA/MARS  
Legal Forum  
T-Hunting, ATV, etc...

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ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

### HOW MANY?

### AMOUNT

_____ Early Bird Registration	Ⓢ \$10.00	_____
(Before 5-15-92 - Includes Pin)		
_____ Pre-Registration (Before 8-1-92)	Ⓢ \$12.00	_____
_____ Admission (After 8-1-92)	Ⓢ \$15.00	_____
(16 years and under - Free)		
_____ Saturday Breakfast	Ⓢ \$12.00	_____
_____ Saturday Luncheon	Ⓢ \$15.00	_____
_____ Saturday Banquet	Ⓢ \$30.00	_____
_____ Sunday Breakfast	Ⓢ \$12.00	_____

TOTAL ENCLOSED: \_\_\_\_\_

Make checks payable to HAMCON Inc., P. O. Box 570756, Tarzana, CA 91356



## CLUB MEETINGS

### GENERAL MEETING

July 17th

August 21st

September 18th

### BOARD BREAKFAST

August 1st

September 5th

General Meeting is the 3rd Friday of each month at 7:30 PM  
Anaheim Emergency Operations Center

909 East Vermont Anaheim, CA  
West of 2nd set of railroad tracks.

A big antenna is in front with a red light on top.  
Vermont runs east and west between Harbor and State College  
Vermont is north of Ball and South of Lincoln

Board Meeting is the 1st Saturday of each month at 8:00 AM  
Ricky's Restaurant-- Members and Visitors are welcome  
10911 Westminster Ave. Garden Grove, CA (714) 539-7538  
Northwest corner of Westminster and Euclid. South of 22 Fwy.

## CLUB NETS

<u>BAND</u>	<u>MODE</u>	<u>DAY</u>	<u>LOCAL TIME</u>	<u>FREQ. MHz</u>	<u>NET CONTROL</u>
15 Meters	SSB	Wed	8:00 PM	21.375*	AF6C
2 Meters	FM	Wed	8:30 PM	146.550 simplex	WB6IXN
40 Meters	CW	Thur	8:00 PM	7.141*	WA6RND
(Listen for W6ZE, Net Control) *Plus or minus QRM					

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